ame of Work:- Improvements to roads and drains to road opp to Elumandamma Temple in mpapura Gramatana in ward No.07 Byatarayanapura

N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	RCC- DRAIN - Road opp to elumandamma temple		1	70.00	0.75	0.90	47.25		
	CC ROAD- Road opp to elumandamma temple-for ugd road cut portion.		1	100.00	2.00	0.30	60.00		
	CC ROAD- Road opp to elumandamma temple-excluding ugd road cut portion.		1	100.00	3.00	0.30	90.00		
	CC ROAD- Main road joining Kuvempu road-excluding ugd road cut portion.		1	130.00	5.00	0.30	195.00		
	Drain opposite to elumadamma temple		1	40.00	0.60	0.60	14.40		
	culvert		1	5.00	1.80	1.00	9.00		
	overburden earth		1	50.00	1.50	0.50	37.50		
	Desilting of drain		1	150.00	0.60	0.60	54.00		
	Basic Rate:	cum	**82.00**				**507.15**	86.92	44082.00
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	RCC DRAIN-BOTTOM								
	RCC- DRAIN - Road opp to elumandamma temple		1.00	70.00	0.75	0.15	7.88		
	CC ROAD- Road opp to elumandamma temple		1.00	100.00	5.00	0.15	75.00		

	CC ROAD- Main road joining Kuvempu road-		1.00	130.00	5.00	0.15	97.50		
	Culvert- Bottom		1.00	5.00	1.80	0.15	1.35		
	For ramps- (Length for shoulder drains deducted)		1.00	70.00	0.30	0.15	3.15		
	Basic Rate:	cum	**4867.00**				**184.88**	5159.02	953774.00
	Area Weightage @ 6%		292.02						
	Total		**5159.02**						
3	KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18)								
	CC ROAD- Road opp to elumandamma temple- For UGD Road work portion		1.00	100.00	2.00	0.20	40.00		
	CC ROAD- Main road joining Kuvempu road- For UGD Road work portion		1.00	130.00	1.50	0.20	39.00		
	Basic Rate:	cum	**1668.00**				**79.00**	1768.08	139679.00
	Area Weightage @ 6%		100.08						
	Total		**1768.08**						
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Reinforcement for side wall						20.48		
			At 55 Kg % per cum				**1.13**	64243.42	72347.00
	Basic Rate:	Tonne	60607.00						
	Area Weightage @ 6%		3636.42						
	Total		**64243.42**						
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	SIDE WALL								

	Road opp to elumandamma temple	2x4	4	70.00		0.60	168.00		
							168.00	387.96	65178.00
	Basic Rate:	Sqm	366.00						
	Area Weightage @ 6%		21.96						
	Total		**387.96**						
6	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Bottom								
	Road opp to elumandamma temple		1.00	70.00	0.75	0.15	7.88		
	Side Wall								
	Road opp to elumandamma temple	**2x2**	2.00	70.00	0.15	0.60	12.60		
							20.48	6371.66	130460.00
	Basic Rate:	cum	6011.00						
	Area Weightage @ 6%		360.66						
	Total		**6371.66**						
7	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	For ramps- (Length for shoulder drains deducted)	1X2	1.00	65.00	0.30	0.10	1.95		
	Culvert bottom	1	1.00	5.00	1.80	0.15	1.35		
	Culvert side walls coping	1x2	2.00	5.00	0.45	0.10	0.45		
	Drain opposite to elumadamma temple - coping	1x2	2.00	40.00	0.20	0.10	1.60		
	Basic Rate:	cum	5441.00				**5.35**	5767.46	30856.00
	Area Weightage @ 6%		326.46						
	Total		**5767.46**						

8	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-23. Item No. 5.6)								
	Culvert side walls	1x2	2.00	5.00	0.45	0.75	3.38		
	Basic Rate:	cum	4187.00				**3.38**	4438.22	14979.00
	Area Weightage @ 6%		251.22						
	Total		**4438.22**						
9	KSRB 5.3-1:Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Culvert side walls	1x2	2.00	5.00		0.75	7.50		
	Basic Rate:	cum	35.00				**7.50**	37.10	279.00
	Area Weightage @ 6%		2.10						
	Total		**37.10**						
9	KSRB 5-11 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 Page No. 25 / Item No. 5.28,								
	Drain opposite to elumadamma temple	1x2	2.00	40.00	0.20		16.00		
	Basic Rate:	cum	937.00				**16.00**	993.22	15892.00
	Area Weightage @ 6%		56.22						
	Total		**993.22**						
10	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (								
	DETA RATE	**Sqm**							
	Covering Slab								
	Road opp to elumandamma temple		1	70		0.75	52.50		
	Drain opposite to elumadamma temple		1	40		0.90	36.00		
							88.50	2100.00	185850.00
11	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	DETA RATE	**Sqm**							

	Covering Slab								
			9	1.8		0.60	9.72		
							9.72	5111.00	49678.92
12	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.177, It No.22.6.1)								
	CC ROAD- Road opp to elumandamma temple		1.00	100.00	5.00	0.10	50.00		
	CC ROAD- Main road joining Kuvempu road-		1.00	130.00	5.00	0.10	65.00		
	Basic Rate:	cum	5866.00				**115.00**	6217.96	715066.00
	Area Weightage @ 6%		351.96						
	Total		**6217.96**						
13	Providing and fixing MS Grating 260x260 mm(Page No.VIII, Sl No.237, code No.0771)								
	For shoulder drians								
	Road opp to elumandamma temple		10				10.00		
							10.00	94.34	943.40
	Basic Rate:	Nos	89.00						
	Area Weightage @ 8%		5.34						
	Total		**94.34**						
14	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				507.15	106.00	53758.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						

	Total		100.00						
	Area Weightage @ 6%		6.00						
			106.00						
15						Sub Total			2472822.32
16				Add 1% Third party inspection charges					24728.22
17				Miscelleneous charges					2449.46
18						Total			2500000.00

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer 23/07
Byatrayanapura Division
B.B.M.P.
23/07

Technical Sanction
Accorded For 25.00 lks
Head of A/C P-1771
CER NO : 08 Dt: 26/7/18

TA CE (YNK)

Improvements to roads and drains to roads opposite to Elumandamma Temple Kempapura Garamatana in ward 07, Byatarayanapura

2500000.00	2449.46	24728.22	2472822.32

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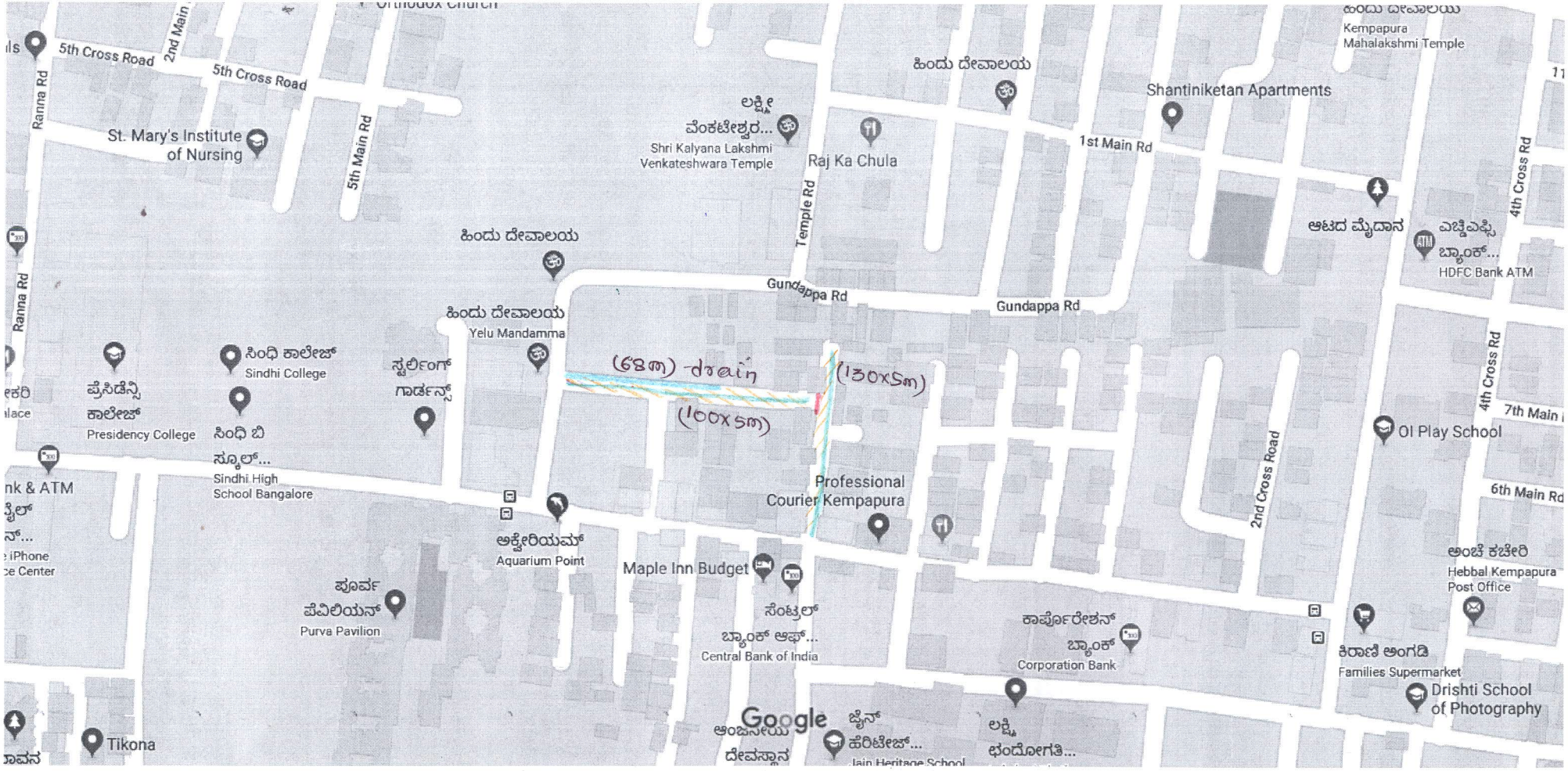
Improvements to roads and drains to roads opposite to [illegible] Elumandamma Temple Kempapura Garamatana in ward 07, Byatarayanapura



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Index:
- culvert
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- UGD road outpotion
- CC-road.

AE(W-4)